G-E Campus News

BEMOTORED BEHEMOTHS

The same sun which never sets on an unshaved Englishman's chin likewise never finishes its daily round without seeing electric motors put to some new use.

In the Sinclair Refining Company's exhibit at "A Century of Progress," you can see five prehistoric monsters. Largest is a Brontosaurus, 70 ft. long and 22 ft. high, with a steel skeleton and welded joints, posing on a mountain. Little motors operate his eyelids, head, neck, mouth, breathing apparatus, and tail. A motorized Tyrannosaurus rocks back and forth, blinking and running out his tongue. A 30-foot Triceratops lunges forward; a Stegosaurus waves his fins; and a Duck-billed Dinosaur sits in a lake and churns water with his tail.

Interviewed recently, and speaking for the group, Brontosaurus shrewdly winked an eye and recommended G-E motors, on the basis of his 80 million years of experience.

WATCHDOG

Like Malone of the Mounted, old PM-13 always gets its man.

When the storm king rides roughshod along transmission lines, this new G-E automatic oscillograph waits to see the whites of his eyes. Then it starts recording within a half cycle (of a 60-cycle wave), a speed made possible by a special little mirror with a movement all its own. On a single roll of the sensitized paper, PM-13 can handle as many as a hundred oscillograms of chance transients and surges, and they can tread right on one another's heels or follow months apart.

When power surges sign their names, it's no forgery. The signature shows true wave shapes and phase relations. And, best of all, the PM-13 is permanently connected in the circuit and runs by itself.

Incidentally, Claude Hathaway, a U. of Colorado graduate in 1927, is largely responsible for this new development.

THERMOCOUPLE TAVERN

We take you now to our new indoor weather laboratory.

General Electric has "commandeered" this ten-room house in Schenectady and dedicated it to improving the air we breathe. Two G-E engineers —Elliott Harrington, Beloit College, '16, and Leon Mears, U. of Minnesota, '30, live there and conduct tests. Air conditioning (temperature control, humidity regulation, air cleansing, air circulation) flourishes. There is automatic oil heating; there are extensive air ducts in the walls, in the floors; room coolers; combination units to deliver air either heated or cooled; filtering, humidifying, and circulating devices. Air currents can be produced—vertical or horizontal. To help summer cooling, a ventilator exhausts air from the attic. With thermocouples located in nearly a hundred places, temperature readings are taken at one point by means of a telephone-relay system.

This residence was one of the proving grounds for the G-E oil furnace. Now it develops design principles for air-conditioning equipment.